

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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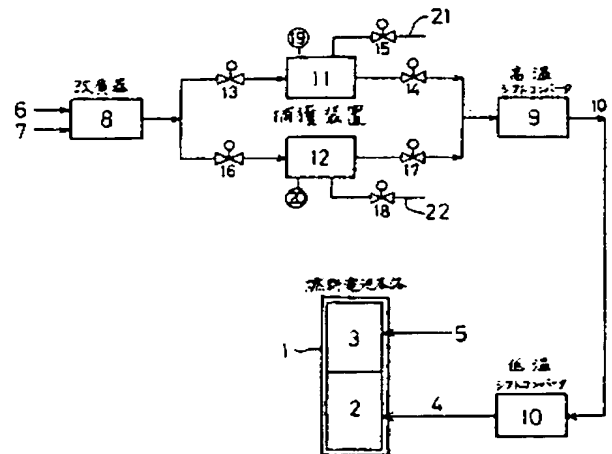
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APPLICATION NUMBER : 61125634

APPLICANT : TOSHIBA CORP;

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INT.CL. : H01M 8/04 H01M 8/06

TITLE : FUEL CELL DEVICE



ABSTRACT : PURPOSE: To prevent overheating and a damage of reformer system equipments resulting from the outflow of a reformer catalyst, by providing a capturing device of the catalyst flowing out from the reformer between the reformer and a high temperature shift converter.

CONSTITUTION: In a normal operation, breaker valves 13 and 14 are opened, breaker valves 15 and 18 are closed, and the reformer catalyst in the outlet gas of a reformer 8 is captured by a filter 11. When the reformer catalyst accumulates at the filter 11, the methane reaction proceeds gradually, and a thermometer 19 detects the temperature rise, the breaker valves 16 and 17 are opened, then the breaker valves 13 and 14 are closed, and the filtering is converted to a filter 12, when, the filter element of the filter 11 is replaced. Furthermore, when the temperature rise at the filter 11 is very fast to threaten an overheating, the breaker valve 15 is opened to introduce the steam therethrough.

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